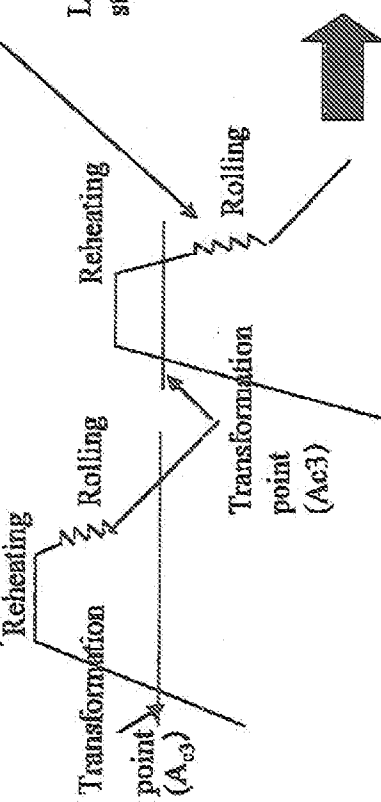


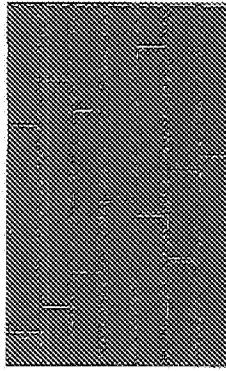
# Toyooka patent

(When same seamless steel pipe of the present application is used)

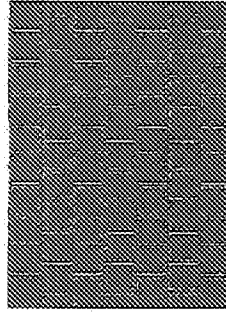


Rolled at low temperature of transformation point or less and the structures are extended long in L direction and finer in cross section C.

L direction (Longitudinal direction of steel pipe)



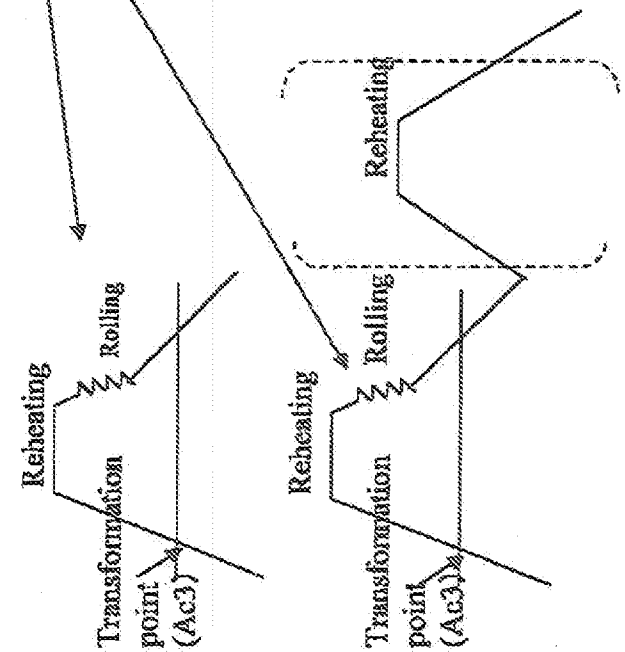
C direction (circumferential direction of steel pipe)



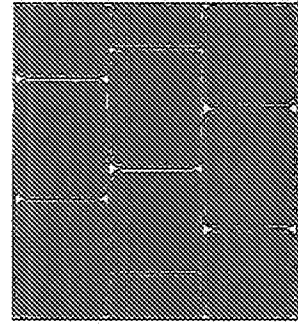
Microstructures are finer in C direction and extended long in L direction

# Present invention

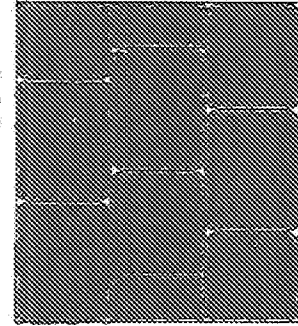
Rolled at a transformation point or more and the structure is recrystallized during cooling and becomes uniform.



L direction (Longitudinal direction of steel pipe)



C direction (circumferential direction of steel pipe)



Crystal grain size is large but uniform structures in L direction and in C direction